



Family Music Control System

User's Manual

Family Music Console



Speaker Unit

Remote Control Pad



Speaker Unit

Infrared Remote Controller

HM21R



Welcome to use DSPPA Family Music Control System. Please read the manual carefully before your operation.

Guangzhou DSPPA Audio Co., Ltd.

<http://www.DSPPA.com>

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1. About Family Music Control System

HM6812 System is an ideal modern family music control system, which is composed of control unit (HM6812), remote control pad (HM20R), infrared remote controller (HM21) and some speaker units. The system is simple in operation and complete in function. The control unit has built-in zone distributor and amplifier, with 6 external music source input ports, 6-room stereo outputs and 6-room volume independent control.

Each room with a remote control pad, through which music source can be selected, and room volume and treble/bass can be adjusted. It is also available to turn on/or turn off the room through its inner pad. Setup of the control pad address can separate one room from the others. In addition, each room control pad with a universal infrared remote controller which has same functions with the control pad.

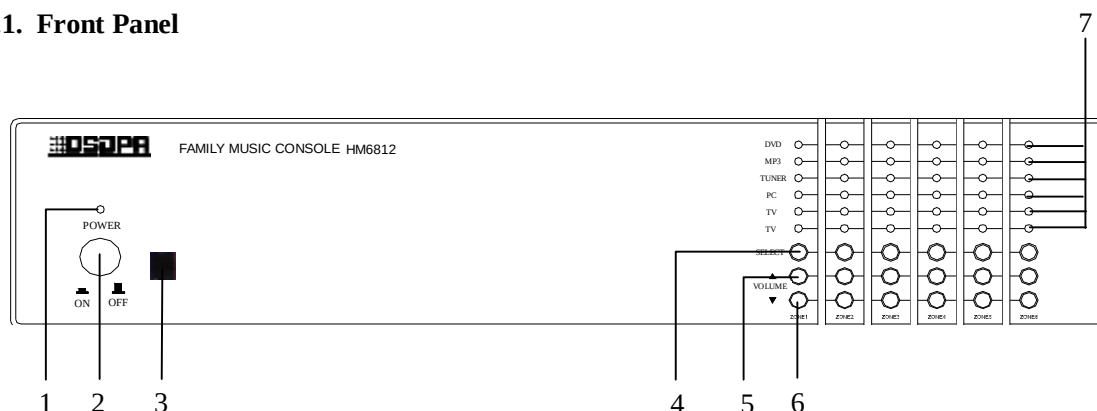
6 music source channels can be connected to DVD player, MP3 player, radio, PC, TV or other audio device. 6 rooms can play the same music or different music simultaneously.

2. Features

- l Modern family music control system with room signal distribution function.
- l System with room remote control pad and infrared remote controller, convenient to carry on the remote control operation of switch on / off, music source selection, tone and volume control for each room.
- l Control unit has already included a zone distributor, amplifier, and 6 stereo music input ports (including DVD, MP3, TUNER, PC, TV and AUX).
- l Control unit with signal matrix function. (6 music source inputs, 6 zone outputs).
- l Convenient light-touch button operation, having the button tone prompt function, with indicators showing the working status.
- l 6 room switching on / off, independent volume and tone control.
- l 6 room with independent remote control pad.
- l Power failure memory function for all operations.

3. Panel Description

3.1. Front Panel



1 Power indicator

The indicator is on while turn on the power.

2 Power switch

Press down this button for turn on the power.

3 Receiving window for infrared remote control

4 Music selection button

To select the music source for each room and turn on/off the room, the corresponding indicator is on when one music source is selected.

5 Volume adjustment button

To increase the volume in the room.

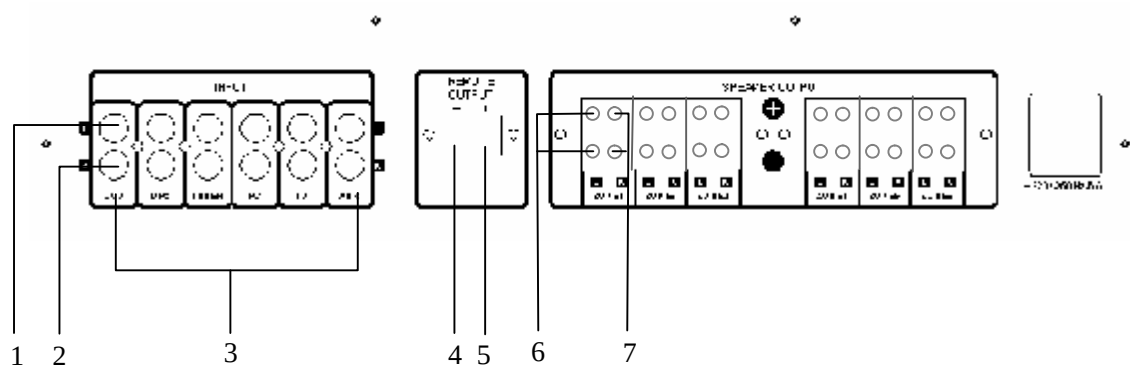
6 Volume adjustment button

To decrease the volume in the room.

7 Selective music source indicator

The corresponding indicator is on when a certain music source channel is selected for the room.

3.2 Rear Panel



1 Left audio input channel with XLR Socket

2 Right audio input channel with RCA Jack

3 6 music source input ports

6 music sources include DVD, MP3, radio, PC, TV and auxiliary audio signal.

4 Negative port

For data exchange between remote control pad and system control unit (Attention! don't make polarity reversal between control pad and control unit.)

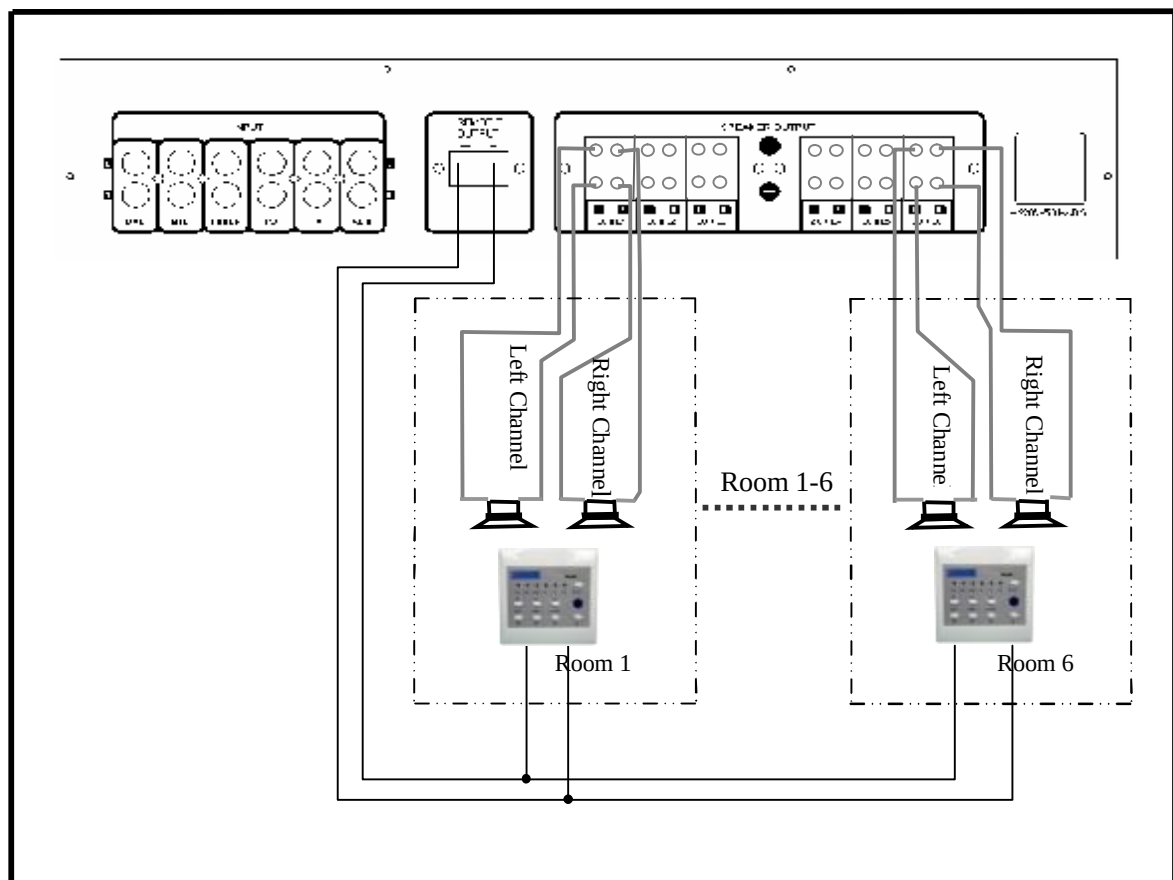
5 Positive port

6 Zone left audio output channel

7 Zone right audio output channel

4. System Connection

4.2 Legend of Zone Connection



ATTENTION: don't make polarity reversal between control unit and control pad / speaker units in each room.

5. System Operation

Connect the system properly as per the diagram given above. Press down the power switch of control unit to turn on the power. Then switch on the connected music source device. Select the music source for each room and adjust the room volume and tone.

During system operation, a tick of prompt tone can be heard from speakers in the room when press function keys on the panel of control unit, remote control pad or remote controller.

5.1 Room Turn On/Off

- ① Turn on the power of control unit, the system will resume to the operating state before last power-off. If a certain music source was selected in one room before the last power-off, the system will turn on the room and the selected music source after power on. If the music source in one room was turned off before last power-off, the room is at off status after power on. In this case, the room can be turned on if slightly press once the music selection button of this room, meanwhile the last turn-off music source before last power-off will be turned on. (Indicator of the corresponding music source will be on)
- ② Turn off the power of control unit can turn off all rooms.

- ③ A room will be turned off after press the music selection button of this room over 3 seconds.
- ④ Press button “” on the room remote control pad can turn on/off the room.
- ⑤ Press button “” on the infrared remote controller can turn on/off the room. (Note: the infrared remote controller is universal for all rooms)

5.2 Music Source Selection

After system power on, on the control unit, if a music source indicator of one room is on, this shows that the corresponding music source channel has been switched on. In this case, the system will start playing the music from connected music device. You can use “SELECT” button of this room to change the input music source, or you can use the remote control pad to the same job. The operation method and indicator displaying of remote control pad is similar to the control unit. In addition, 6 music source selection keys on the infrared remote controller can select the music source directly in each room.

5.3 Volume Control and Tone Adjustment

Volume in each room with 18 grades can be adjusted through the “VOLUME▲” and “VOLUME▼” button on the panel of control unit, remote control pad or infrared remote controller. Please refer to the “Description of front panel function” section of the main system for the operation method of the volume of the main system.

Please refer to the section of “Panel Description” and “Functions of Keys” for volume operation of control unit, remote control pad and infrared remote controller.

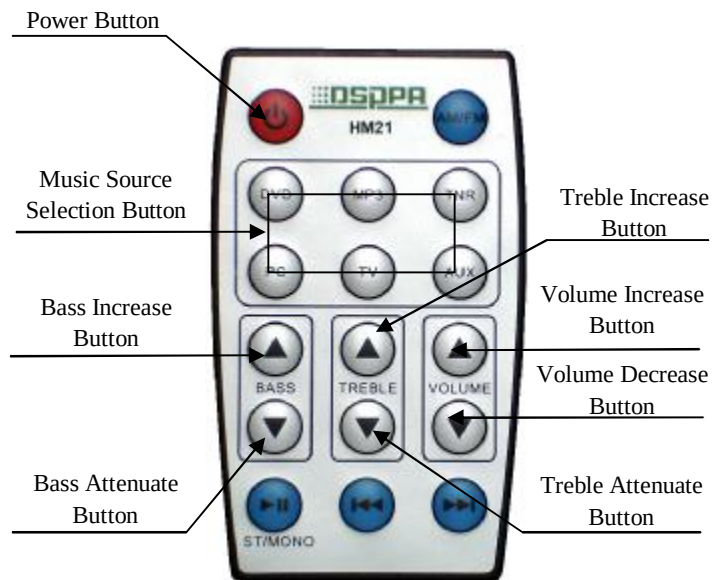
Treble/Bass in each room has the range of $\pm 12\text{dB}$. Press once the key of Treble/Bass can increase or attenuate the tone for 2dB, namely, the tone can be increased or attenuated in 6 levels. The tone can be adjusted through 4 keys on the remote control pad and remote controller of each room: “BASS▲” and “BASS▼”, “TREBLE▲” and “TREBLE▼”. Please refer to the section of “Functions of Keys” for the detailed operation method.

5.4 Control Unit Alarm and the Reason

While control pad having short circuit problem or polarity reversal with control unit, the inner buzzer in control unit will send out the alarm tone of “Tick, Tick, Tick”. Please turn off the control unit before check these problems.

If alarm still happens after restart the system, please turn off the control unit firstly, then disconnect the line between remote control pad and control unit and restart the system. In this case, if alarm happens again, it means that the control unit has a failure; otherwise, the remote control pad may have short circuit failure or the system line connection is incorrect.

6. Functions of Keys of HM21 (Infrared Remote Controller)

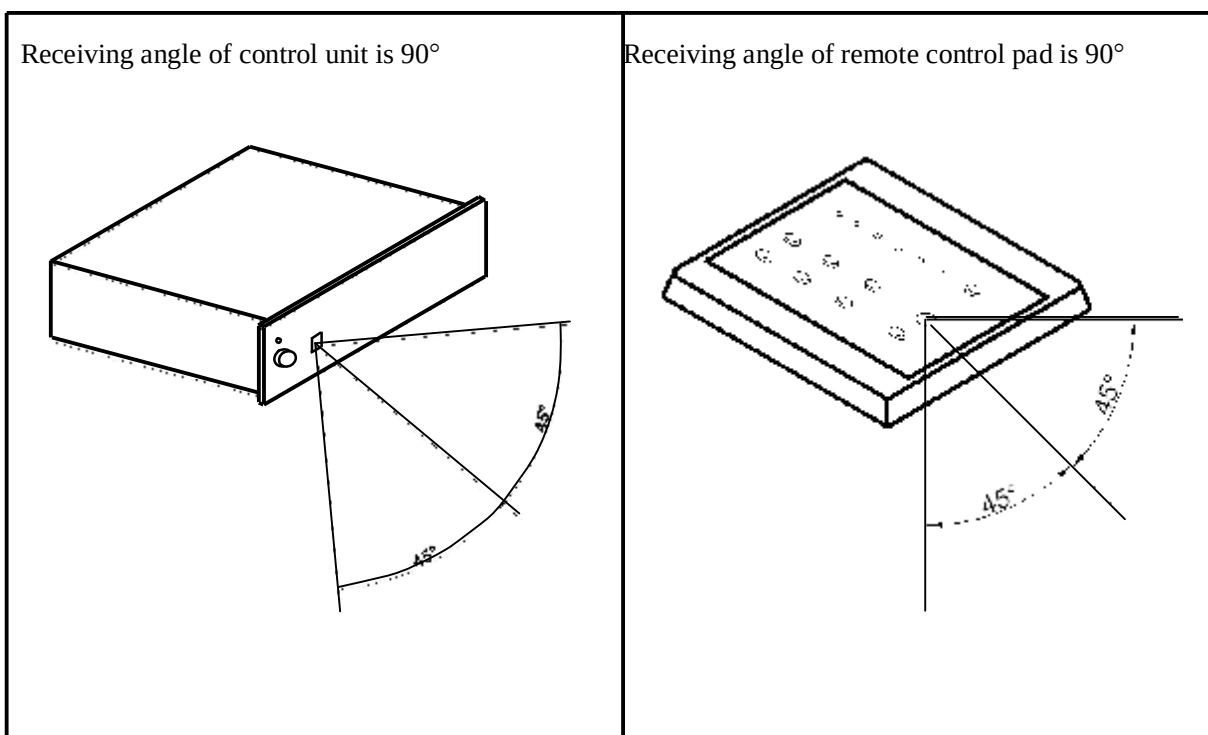


Remind: When the infrared remote controller send signal to control unit directly, it can manage all system functions in room 1. The blue keys on the panel are vacancy keys.

Warnings!

The operations of all function buttons on the remote controller are light touch. Please don't overpress the buttons to prevent damage !

Illustration of Receiving Angle of Infrared Remote Control Signal



7. Precautions

7.1 Safety Operation

- I Please don't insert the power plug of the equipment into the power network before connecting the system properly.
- I It should be ensured that the voltage provided for the equipment is completely same with the voltage required by the equipment; otherwise, there may be risk of damaging the equipment.
- I Please don't open the shell without authorization to prevent electric shock.
- I The machine isn't disconnected from the power network completely when the power switch of the equipment is at "off" status. For safety, please pull out the power plug from the socket when the equipment is out of use.
- I Please don't settle the equipment at a place with over cold or overheat.
- I It is required to ensure a good ventilation working condition for the equipment to prevent overheat during operation and damage of machine due to a high temperature.
- I The master power supply switch should be turned off in very damp weather or when the device is not to be used for a long time.
- I It is required to pull out the power plug from the socket and to ensure the equipment fully disconnect from the power network before disassembling or re-assembling any part of the equipment, disconnecting or re-connecting any electric appliance or other connections.
- I When the equipment is found with a failure, the non-professional personnel without authorization should not open the shell for repairing to prevent accidental event.
- I Don't place any corrosive chemical substance around or on the top of equipment.

7.2 After-sales Service

- I For the quality problems occurred in the operations complying with rules in the User's Manual, our company will provide free of charge guarantee service for one year (including free replacement of part) from the date of purchase
- I To obtain these guarantee services, consumer should present the Card of Guarantee, and sales invoice as credential.
- I The following conditions don't belong to the guarantee:
 - (1) Product damage caused by wrong installation, application or handling.
 - (2) Product damage caused by abnormal conditions such as over voltage or extreme humidity, etc.
 - (3) Product damage caused by the accidents from force majeure.
 - (4) The number of product on the shell has been altered or removed.
 - (5) The product has been repaired or modified by the unauthorized personnel.
- I Please keep the User's Manual and Card of Guarantee properly.

- I As to the terms or precautions not mentioned in the User's Manual, please contact the distributor or visit the web page of our company: <http://www.dsppa.com>.

8. Packing List

Model HM6812 control unit, 1 set

Infrared remote controller (HM21), 1 piece

User's Manual, Card of Guarantee and Quality Certificate, 3-pin power cord (AC220 V/10A), and 1.5 meter 2-2 RCA jack connecting line,

9. Specifications

No.	Item		Specifications
1.	Zone quantity		6 zones, 2 channel outputs with amplifier in each zone
2.	Function Of Infrared Remote Controller		May control all system functions of zone 1
3	Zone Remote Control Pad	Remote Control Function	It is available to control all system functions in each zone.
		Communication Cable	Twin wire, twisted line or parallel line(diameter > 0.5mm, circuit resistance <50Ω)
		Communication Distance	within 300 m
		Maximum Quantity	6, all in parallel, setting up the address of control pad in each zone through jumper wire method.
4	Audio Specifications	Input Sensitivity	250mV ± 25mV
5		Input Resistance	>10K Ω
6		Zone Output Power	20W/4 Ω (distortion ≤1%) (all zone total power ≤150W)
7		Frequency Response	20Hz~20kHz ± 0.5dB
8		Total Harmonic Distortion (THD)	Less than 0.2%, at 1 kHz, 1/3 rated output power
9		Output Adjustment Rate	From full load down to no load, less than 3dB
10		Tone Control	Bass: ± 10 dB/100 Hz Treble: ± 10 dB/10 kHz
11		Signal/Noise	Better than 76dB
12	Power Supply		AC220V 50/60Hz
13	Consumed Power		<200W
14	Protection		AC220V/F4A
15	Dimensions		485×88×345mm
16	Net weight		8Kg

Specifications are subject to be changed without notice.